



TOBACCO SUBSTITUTED COMPOSITION

BACKGROUND OF THE INVENTION

Field of the Invention

[0001] The present invention relates to a tobacco substitute composition, and in particular to a tobacco substitute composition which has an excellent effect to aid in smoking cessation. The composition does not include nicotine. The invention also relates to a method for preparing the composition.

Description of the Conventional Art

[0002] It is known in the art that a gum or a patch type product which contains a small amount of nicotine is used as a substitute for tobacco.

[0003] However, since these products contain nicotine, there is a disadvantage due to nicotine. Therefore, it is impossible to implement the desired effect of smoking cessation.

[0004] There are tobacco substitutes which do not contain nicotine and U.S. Patents 4,506,684 and 4,719,929 describe products which include cellulose. In addition, in U.S. Patent 4,813,438, a product made of bran, soybean, and mesquite is described. In the Japanese Patent Laid-open No. Pyung 1-273574, a product which is made of a coffee powder or leaves of a tea plant is described. In addition thereto, various products which use an organic compound as a substitute are known. In particular, in U.S. Patent 4,600,025, 2-methyl-5-(pyrrolidinomethyl)thiazole and 2-methyl-5-(piperidinomethyl)thiazole are described.

[0005] However, since the above-described products have a flavor and taste different from tobacco, these products failed to attract a smoker's interest.

Summary of the Invention

[0006] Accordingly, it is an object of the present invention to provide a tobacco substitute composition which has a taste very similar to the taste of tobacco, thereby making the composition suitable for use as a smoking cessation aid.

[0007] In order to achieve the above object, a tobacco substitute composition is provided which is formed of 80-90 weight percent of an *Eucommia ulmoides*, 1-10

weight percent of a *glycyrrhiza glabra*, and 1-10 weight percent of a *Perilla frutescens*.

[0008] In another example of the present invention, a flavoring material such as sodium chloride, glycerol, a sweetener, spices, etc. which are generally added to a tobacco may be used.

[0009] Additional advantages, objects and other features of the invention will be set forth in part in the description which follows and will become apparent to those having ordinary skill in the art upon examination of the following. The objects and advantages of the invention may be realized and attained as particularly pointed out in the appended claims as a result of the experiment compared to the conventional arts.

Detailed Description of the Invention

[0010] As a result of experiments using various plants, we have found out that the leaves of *Eucommia ulmoides* have a taste which is similar to the taste of tobacco. *Eucommia ulmoides* is generally used as a therapy material for beriberi disease, hypertension, insomnia, lumbago, joint diseases, etc. In addition, *Eucommia ulmoides* is used as a nutrition material, and a stamina enhancing material. *Eucommia ulmoides* is characteristically non-toxic. The effective components of the fully dried *Eucommia ulmoides* are as follows: 2.2g of moisture, 12.3g of protein, 7.0g of paper, 10.1g of fiber, 13.8g of powder, 193mg of phosphorus, 95.4mg of Fe, 2.5g of calcium, 3.99mg of natrium, 330mg of magnesium, 1.09g of kalium, 17.8ppm of zinc, 5.52ppm of copper, 5.97g of tannin, 205mg of chlorophyll, 26.3mg of tocopherol, 58mg of vitamin C, and 480mg of organic acid based on the total weight of 100g.

[0011] If the *Eucommia ulmoides* exceeds the above-described amount, the taste of the composition is not soft with its small amount of *Glycyrrhiza glabra*. If the *Eucommia ulmoides* is used by an amount less than the above-described amount, it is impossible to obtain the taste of the tobacco.

[0012] Here, *Glycyrrhiza glabra* is added. *Glycyrrhiza glabra* serves to discharge sputum and smooth the airways. Therefore, *Glycyrrhiza glabra* overcomes the side effects which may occur due to the smoking. In the present invention, 1-10

weight percent of *Glycyrrhiza glabra* is used. *Glycyrrhiza glabra* has 40-50 times the sweetness of sugar.

[0013] In the present invention, about 1-10 weight percent of *Perilla frutescens* which has a curing effect for cough is added. Since the *Perilla frutescens* has 200-300 times the sweetness of the sugar, *Perilla frutescens* serves as a sweetener and an antiseptic.

[0014] In the composition according to the present invention, a flavoring material such as sodium chloride, glycerol, sweetener, spices, etc. may be added. As a sweetener, sugar, honey, an artificial sweetener, etc. may be added. In addition, as a flavoring material, a peppermint oil is used.

[0015] The present invention will be illustrated by the following examples.

EXAMPLE 1

Preparation of tobacco substitute composition

[0016] 5g of *Glycyrrhiza glabra*, 5g of *Perilla frutescens*, and 3g of glycerol were added to 90g of the leaves of the *Eucommia ulmoides*, and the resulted mixtures were cut by 1mm and then were uniformly mixed. The tobacco substitute composition was formed in the same shape of the tobacco. As a result of the analysis of the components of the smoke of the product, the amount of the nicotine was 0mg/cig, and the amount of the tar was 14.4mg/cig.

EXAMPLE 2

Clinical demonstration

[0017] This clinical demonstration was conducted by the Wonkwang University Hospital located in Mokpo, Korea. In this example, 27 smokers were selected and were suggested to smoke the composition of example 1 for three weeks.

[0018] The result of the above-described clinical demonstration was shown in the following table 1.

Degree	Number of patients	Ratio
1. Recovered	20 persons	74.7%
2. Good	3 persons	11.11%
3. Moderate	2 persons	7.41%
4. Slight	1 person	3.70%
5. Unchanged	1 person	3.70%
Sum	27 persons	99.99%

- * 1. Recovered: Smoking cessation.
- 2. Good: smoking amount was decreased by more than 75%.
- 3. Moderate: smoking amount was decreased by more than 50%.
- 4. Slight: smoking amount was decreased by more than 25%.
- 5. Unchanged: No effect on smoking suppression.

[0019] The other symptoms of the demonstrators were as follows: No side effects: 13 persons, nausea: 5 persons, phlegm: 4 persons, dizziness: 2 persons, headache: 1 person, and a concentration decrease: 1 person. The above-described symptoms were known as a smoking withdrawal effects; not side effects of the tobacco substitute of this invention.

[0020] Although the preferred examples of the present invention have been disclosed for illustrative purposes, those skilled in the art will appreciate that various modifications, additions and substitutions are possible, without departing from the scope and spirit of the invention as recited in the accompanying claims.